

20080212.ba v04\_n147.bam.20080212

>From ???@??? Tue Feb 12 21:55:44 2008 -0600  
Date: Tue, 12 Feb 2008 21:55:06 CST  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 4147  
Message-Id: <20080213035507.A5F8947019E@srvr1.theporch.com>

BOATANCHORS Digest 4147

Topics covered in this issue include:

- 1) Re: Science Fair Ideas  
by ail0@att.net
- 2) ARC-5 Power  
by k9oco@jveras.com
- 3) Re: ARC-5 Power  
by Paul Bernhardt <paul.bernhardt@nrl.navy.mil>
- 4) Re: ARC-5 Power  
by Jerry Proc <jerry7proc@yahoo.com>
- 5) Re: ARC-5 Power  
by Bob Roehrig <broehrig@aurora.edu>
- 6) National Radio "beam current" meter?  
by "Nick England" <nick@3rdtech.com>
- 7) AN/URR-30 or R-571/URR - what is it?  
by "Nick England" <nick@3rdtech.com>
- 8) What are the best B/A handtools?  
by John Poulton <jp@cs.unc.edu>
- 9) Re: What are the best B/A handtools?  
by john <johnmb@nc.rr.com>
- 10) Re: What are the best B/A handtools?  
by WA1KBQ@aol.com
- 11) Re: What are the best B/A handtools?  
by "Al Parker" <anchor@ec.rr.com>
- 12) Re: What are the best B/A handtools?  
by WA5CAB@cs.com
- 13) Re: What are the best B/A handtools?  
by Shriver <shriver1@comcast.net>
- 14) Re: What are the best B/A handtools?  
by spr@earthlink.net
- 15) Re: What are the best B/A handtools?  
by Bob Roehrig <broehrig@aurora.edu>
- 16) AR 88LF  
by "John Gillespie" <jgillespie@porchlight.ca>
- 17) WANTED: TM on R-100/URR  
by WA5CAB@cs.com
- 18) Re: What are the best B/A handtools?

by WA5CAB@cs.com

19) Re: What are the best B/A handtools?

by "Arden Allen" <gumbear@pacbell.net>

-----  
From: ail0@att.net

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Science Fair Ideas

Date: Mon, 11 Feb 2008 23:37:12 +0000

Message-Id:

<021120082337.2364.47B0DC28000A63C10000093C22228869349B0A02D29B9B0EBFCF04070E@att.net>

My grandson won the San Diego fair when he was 12.

Did you know that no matter how many times you push that button on the traffic light,

the time delay between red and green is the same?

I was going to suggest the Kelvin Water Drop experiment. We set it up in my office at Bell Telephone Laboratories (many years ago) and got beautiful sparks. It was very impressive, BUT, By the time I explained how to set it up and the reason why

it worked and how to run it, most of what I had written was: "WARNING, WARNING, DON'T, BE CAREFUL, DON'T TOUCH, KILLED, DANGER, WARNING, DON'T, MORE DANGEROUS THAN THE POWER SUPPLY IN A KW RIG, WARNING, DON'T TRY THIS IF IT DOESN'T SCARE YOU, WARNING, DON'T TRUST THE INSULATION, DON'T RISK YOUR CHILD'S LIFE IF YOU CAN'T

TRUST HIM TO BE CAREFUL".

I had a plaque on the wall in my office AT BTL that said: "NO JOB IS SO IMPORTANT AND NO SERVICE SO URGENT THAT WE CANNOT TAKE THE TIME TO PERFORM OUR WORK SAFELY.".

Fifty years later, I still believe that they are right, so: Better to not do Kelvin and lose the competition than to do it and win posthumously.

73's

Art KHBA

-----  
Message-ID: <50944.68.17.140.196.1202776142.squirrel@www.islandemail.com>

Date: Mon, 11 Feb 2008 16:29:02 -0800 (PST)

Subject: ARC-5 Power

From: k9oco@jveras.com

To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=iso-8859-1

Can someone tell me the typical RF output power for the ARC-5 & SCR-274N transmitters?

I have seen various, conflicting specifications quoted . . . some apparently refer to the total Volts/Amps power consumed by the equipment from its power supply during transmit rather than RF output power.

Also, does the AM PEP differ in the screen-modulated SCR-274N and plate-modulated ARC-5 gear?

It's been nearly 50 years since my last hands-on experience with the gear.

TIA es 73-

Joe, K90C0

-----  
Message-Id: <6.2.1.2.2.20080211200701.02fe2d28@ppd.nrl.navy.mil>  
Date: Mon, 11 Feb 2008 20:07:43 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Paul Bernhardt <paul.bernhardt@nrl.navy.mil>  
Subject: Re: ARC-5 Power  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Joe,

I have gotten 80 Watts from an ARC-5 transmitter into a 50 Ohm load with proper matching.

Paul Bernhardt

At 07:29 PM 2/11/2008, k9oco@jveras.com wrote:

>Can someone tell me the typical RF output power for the ARC-5 & SCR-274N  
>transmitters?

>

>I have seen various, conflicting specifications quoted . . . some  
>apparently refer to the total Volts/Amps power consumed by the equipment  
>from its power supply during transmit rather than RF output power.

>

>Also, does the AM PEP differ in the screen-modulated SCR-274N and  
>plate-modulated ARC-5 gear?

>

>It's been nearly 50 years since my last hands-on experience with the gear.

>

>TIA es 73-

>

>Joe, K90C0

Home Address Preferred for Letters:

Paul A. Bernhardt, KF4FOR  
5704 Ridge View Drive  
Alexandria, VA 22310  
Phone: 703-960-9656

Work:

Paul A. Bernhardt  
Code 6750  
Naval Research Laboratory  
4555 Overlook Ave, SW  
Washington, DC 20375  
Phone: 202-767-0196  
FAX: 202-767-0631

-----  
Date: Mon, 11 Feb 2008 20:31:59 -0500 (EST)  
From: Jerry Proc <jerry7proc@yahoo.com>  
Subject: Re: ARC-5 Power  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit  
Message-ID: <729043.65937.qm@web90615.mail.mud.yahoo.com>

Hi Joe,

On my own web page I have this recorded:

CCT-52208 (ARC5) transmitter - 3 to 4 MHz; 24 watts  
CW; 8 watts phone.

In the Surplus Conversion Handbook (1964) by Tom  
Kneitel, he says the ARC-5 can have 90 watts input.  
That seems awfully high to apply to a pair of 1625's.

--- k9oco@jveras.com wrote:

>  
> Can someone tell me the typical RF output power for  
> the ARC-5 & SCR-274N  
> transmitters?  
>

> I have seen various, conflicting specifications  
> quoted . . . some  
> apparently refer to the total Volts/Amps power  
> consumed by the equipment  
> from its power supply during transmit rather than RF  
> output power.  
>  
> Also, does the AM PEP differ in the screen-modulated  
> SCR-274N and  
> plate-modulated ARC-5 gear?  
>  
> It's been nearly 50 years since my last hands-on  
> experience with the gear.  
>  
> TIA es 73-  
>  
> Joe, K9OC0  
>  
>

--

Regards,  
Jerry Proc  
E-mail: jerry7proc@yahoo.com

Looking for the perfect gift? Give the gift of Flickr!

<http://www.flickr.com/gift/>

-----  
Date: Mon, 11 Feb 2008 19:32:53 -0600 (CST)  
From: Bob Roehrig <broehrig@aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: ARC-5 Power  
Message-ID: <Pine.LNX.4.61.0802111929240.2638@hermes.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

On Mon, 11 Feb 2008, Paul Bernhardt wrote:

> I have gotten 80 Watts from an ARC-5 transmitter into a 50 Ohm load with  
> proper matching.

OK - I hafta ask this question now: With the roller inductor at zero inductance, what is the output Z of the ARC-5 type transmitters?

I never was concerned about it because when I used one I always fed an end fed wire and merely added a cap to ground off the antenna output, using that roller inductor then as an L network. Always worked for me and I really could have cared less what the actual output power was.

Bob Roehrig  
Aurora University Telecom dept.  
broehrig@aurora.edu  
K9EUI W9ZGP WD2XSH/19  
630-844-4898 fax 630-844-4222  
"Nostalgia is a thing of the past"

-----  
Date: Tue, 12 Feb 2008 11:39:18 -0500  
From: "Nick England" <nick@3rdtech.com>  
Subject: National Radio "beam current" meter?  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <034001c86d95\$d088f390\$fd0212ac@Heathkit2>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Whazzit? - interesting item acquired at the Orlando hamfest -  
National Radio meter labled "Beam Current". 1950's modern styling.  
Any ideas what it went into?

Evidently not part of their Atomichron, which was my first thought.  
Maybe for klystron in their tropo system? - anyone got photos or info?

cheers,  
Nick KD4CPL

-----  
Date: Tue, 12 Feb 2008 13:54:53 -0500  
From: "Nick England" <nick@3rdtech.com>  
Subject: AN/URR-30 or R-571/URR - what is it?  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <03ee01c86da8\$c123c7a0\$fd0212ac@Heathkit2>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

I found the following reference to a Navy manual for an AN/URR-30 (R-571) receiver mde by National - does anyone know anything about it? given the XN-1 designation, maybe a prototype only?

cheers,  
Nick KD4CPL

www.virhistory.com/navy

-----  
Instruction book for radio receiving set AN/URR-30 (XN-1) : consisting of radio receiver R-571 (XN-1)j accessories / Bureau of Ships, Navy Department. [Washington, D.C.]: Bureau of Ships, Navy Dept.; Maiden, Mass.: National Company, Inc., 1953. 1 v. (various pagings) : ill. (some folded); 28 cm. 87 p. "NAVY NAVSHIPS 91947" "Approved by BUSHIPS: 1 June 1953" "Contract NObsr 57305" United States. Navy. -- Handbooks, manuals, etc. Radio -- Receivers and reception -- Handbooks, manuals, etc. United States. Navy Dept. Bureau of Ships. National Company. (Malden, Mass.).

-----  
Date: Tue, 12 Feb 2008 16:08:20 -0500 (EST)  
From: John Poulton <jp@cs.unc.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: What are the best B/A handtools?  
Message-ID: <Pine.LNX.4.64.0802121601090.20643@swan5.cs.unc.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

Been meaning to pose this question for some time, and hope it doesn't start an endless thread.. :)

What companies make the best hand tools, particularly needle-nosed pliers and diagonal cutters, for working on boatanchors? Not the cheapest, but rather the best. Be interested in rec's on the various drivers that we use as well.. I've got to replace my ageing pliers and cutters, and would like to buy something that will last at least the remainder of a lifetime.

Also, what's been the collective experience with de-soldering tools, and which ones work best for b/a's? Saw a plug for the Hakko desoldering station go by during the last week or so, but would be interested in other opinions, experiences, and recommendations as well.

73, John K4OZY

--

-----  
Message-Id: <6.2.1.2.2.20080212173753.03fc4eb0@pop-server.nc.rr.com>  
Date: Tue, 12 Feb 2008 17:40:41 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@nc.rr.com>  
Subject: Re: What are the best B/A handtools?

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I would highly recommend EREM cutters. They're swiss, expensive, and you'll lose them before you wear them out. They're what production people use who cut hundreds of times a day.

Xcelite screw and nut drivers are hard to beat.

I find my Hakko is great, but not so much for BA stuff. For board level stuff, it's fantastic.

John K5MO

At 04:08 PM 2/12/2008, John Poulton wrote:

>Been meaning to pose this question for some time, and hope  
>it doesn't start an endless thread.. :)

>

>What companies make the best hand tools, particularly needle-nosed pliers  
>and diagonal cutters, for working on boatanchors? Not the cheapest, but  
>rather the best. Be interested in rec's on the various drivers that we  
>use as well..

>I've got to replace my ageing pliers and cutters, and would  
>like to buy something that will last at least the remainder  
>of a lifetime.

>

>Also, what's been the collective experience with de-soldering  
>tools, and which ones work best for b/a's? Saw a plug for  
>the Hakko desoldering station go by during the last week or  
>so, but would be interested in other opinions, experiences,  
>and recommendations as well.

>

>73, John K4OZY

>

>--

-----  
From: WA1KBQ@aol.com

Message-ID: <bd3.18a12ee0.34e37d1d@aol.com>

Date: Tue, 12 Feb 2008 17:52:13 EST

Subject: Re: What are the best B/A handtools?

To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Once you try a Hakko 808 you will wonder how you ever got along without one.



Makes disassembling circuits with point to point wiring a quick and simple task and easy to do without burning everything up. Goot makes a good desoldering gun also, have one of those too and it's just as good. Both of these have

strong vacuum pumps, good filters and heat very quickly. Only a few seconds from turning on till you are sucking the solder out from a terminal strip. Sure makes it easy to remove buried cap leads; with the solder out of the way it's just too easy to unwrap the usual three or four other leads in the way to get to the cap lead.

Regards, Greg

In a message dated 2/12/2008 5:09:14 P.M. Atlantic Standard Time, jp@cs.unc.edu writes:

Been meaning to pose this question for some time, and hope it doesn't start an endless thread.. :)

What companies make the best hand tools, particularly needle-nosed pliers and diagonal cutters, for working on boatanchors? Not the cheapest, but rather the best. Be interested in rec's on the various drivers that we use as well.. I've got to replace my ageing pliers and cutters, and would like to buy something that will last at least the remainder of a lifetime.

Also, what's been the collective experience with de-soldering tools, and which ones work best for b/a's? Saw a plug for the Hakko desoldering station go by during the last week or so, but would be interested in other opinions, experiences, and recommendations as well.

73, John K4OZY

--

\*\*\*\*\*The year's hottest artists on the red carpet at the Grammy Awards. Go to AOL Music.  
(<http://music.aol.com/grammys?NCID=aolcmp00300000002565>)

-----  
Message-ID: <010a01c86dcb\$02b3b6e0\$6401a8c0@reloaded>  
From: "Al Parker" <anchor@ec.rr.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: What are the best B/A handtools?  
Date: Tue, 12 Feb 2008 18:00:05 -0500

MIME-Version: 1.0  
Content-Type: text/plain;  
format=flowed;  
charset="iso-8859-1";  
reply-type=response  
Content-Transfer-Encoding: 7bit

Hi JP,

I agree with John MO, the Hakko sucker is great, I find it very helpful on BA stuff, and almost indispensable the few times I have to mess with board level stuff. One caveat - if it's been MFP'd, scrape the stuff off the joint. I use a small bore tip, maybe it's more prone to plugging than a smaller one, the MFP makes it almost a certainty.

Thanks for the tip on EREM, John, where are they available? Never mind, GOOGLE is our friend, Mouser has them, \$40-50 neighborhood. I'm good at losing things tho'.

I use Xcelite allen & bristol sets, and a few of their drivers which fit the same handles.

JP, what'd you bring back from Orlando? I see Nick found some stuff.

73,

Al, W8UT

New Bern, NC

[www.boatanchors.org](http://www.boatanchors.org)

[www.hammarlund.info](http://www.hammarlund.info)

-----  
From: WA5CAB@cs.com  
Message-ID: <cf4.21572f05.34e38bd5@cs.com>  
Date: Tue, 12 Feb 2008 18:55:01 EST  
Subject: Re: What are the best B/A handtools?  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_cf4.21572f05.34e38bd5\_boundary"

--part1\_cf4.21572f05.34e38bd5\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I use Xcelite almost exclusively for radio handtools - screwdrivers, nutdrivers, long-nose pliers, cutters (diagonal and end) and allen and bristol drivers. Weller pencil irons, American Beauty large irons, and Pace or APE desoldering equipment. I prefer the latter to the Hakko mentioned earlier as being pencil iron style, it's lighter, easier to handle and with a variety of straight and angle tips, able to get into tight quarters better. Tips up to 0.080" ID

are available which helps reduce MFP clogging. But keep a welding torch tip clearer set handy.

A tip on desoldering tips (pun intended). I do very little circuit board work anymore and find that most of the time, it helps performance if you file the end of the tip at about 45 degrees. It (a) increases the tip contact area and heating rate (particularly with the larger ID tips) and (b) makes it easier for me to hold the straight tip to the joint (I have a tremor in my right wrist and hand that pills don't completely suppress).

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
MVPA 9480  
<[wa5cab@cs.com](mailto:wa5cab@cs.com)> (Primary email)  
<[wa5cab@comcast.net](mailto:wa5cab@comcast.net)> (Backup email)

--part1\_cf4.21572f05.34e38bd5\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1\_cf4.21572f05.34e38bd5\_boundary--

-----  
Message-ID: <47B23C5D.204@comcast.net>  
Date: Tue, 12 Feb 2008 19:39:57 -0500  
From: Shriver <[shriver1@comcast.net](mailto:shriver1@comcast.net)>  
MIME-Version: 1.0  
To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>  
CC: [jp@cs.unc.edu](mailto:jp@cs.unc.edu)  
Subject: Re: What are the best B/A handtools?  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

I will second Xcelite for screwdrivers. Particularly their Philips head screwdrivers, with the blackened tips. They are the best of a sorry lot, since the Philips head screwdriver is such a marginal design in the first place. (It's designed to destroy the screw and screwdriver if you use too much torque.)

I personally despise screwdrivers with chrome plated tips, of any sort. Might as well dip them in grease before using them as well. Yeah, some vendors sand-blast the chrome, but it's still way too likely to slip. Stanley Workmaster screwdrivers were originally plain steel, then the twits at Consumer Reports did a review and noted that they could rust. Well, sure, if you're an idiot and don't take proper care of your tools, they will rust! Well, Stanley responded by chrome plating them, ruining a good design. (God save us from some of the stupidity of Consumer Reports!)

I also like Xcelite for the Series 99 tools, with the blades that go into a common handle. A set of Allen wrenches in that format is great to have. So are Bristol Spline wrenches if you ever need them. (I just added a set of Torx bits for my Series 99 tools, but those are quite useless on Boatanchors!)

For smaller screwdrivers, Wiha makes fantastic ones. All with blackened tips, and very tough steel. They also make an (incompatible) competitor to the Series 99 tools, which look interesting. Smaller, lower torque, but a great assortment of bits for modern needs, like really small Torx tips.

Cooper Tools is buying up more and more tool companies -- it's hard to avoid them. They still make solid tools. They discontinued short chain nose pliers decades ago, there's only long needle-noses, and dainty little needle-noses suitable for PC board work. Neither is really great for soldering lug work, you want a short but strong chain-nose plier for that. They also make fine diagonal cutters for every day use. Having good pairs of fine and flush-cutting diagonal pliers (say EREM or one of the Cooper Tools brands) is great, but they aren't as durable as a cruder pair.

I've been totally happy with my Sears Craftsman ratchet wrenches, with the socket-drivers. Most of the Craftsman tools are still good, other than the chrome-plated screwdrivers. (They don't want to replace them due to rust.) If you do break one, they're very gracious about replacing them under the endless warranty. Be careful, only a small fraction of Sears tools are still Craftsman. While the house-brand tools at Home Depot come with the same warranty, they really go out of their way to make the returns process obnoxious, under-staffing the returns counter.

-----  
Message-ID: <24733045.1202864798790.JavaMail.root@elwamui-sweet.atl.sa.earthlink.net>

Date: Tue, 12 Feb 2008 20:06:38 -0500 (EST)

From: spr@earthlink.net

To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: What are the best B/A handtools?  
Mime-Version: 1.0  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: 7bit

John,

Phillips screwdrivers: the tip MUST be hardened, and therefore cannot be chrome plated. Xcelite makes black tipped Phillips screwdrivers, and they are the \*only\* way to go.

Soldering iron: I use a Metcal MX500 series RF heated iron and power supply. You can scrounge a set-up on eBay for \$200 or so, and especially with the extra handle that lets the 3/26 inch diameter tip stick out 6 inches, you'll never look back. It's just the tool for getting in between bandswitch wafers. Email me if you want more information.

I second the Erem recommendation for cutters.

I use a mechanic's tool called a scribe for clearing a path for new wires in an existing soldered lug. Its end is hardened steel and solder won't stick to it. You heat the joint, poke it through, and rotate it back and forth while the joint cools. Presto, hole for your new part lead.

Regards,

Scott

-----  
Date: Tue, 12 Feb 2008 19:15:37 -0600 (CST)  
From: Bob Roehrig <broehrig@aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: What are the best B/A handtools?  
Message-ID: <Pine.LNX.4.61.0802121914570.3234@hermes.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII; format=flowed

What about Klein tools? I always thought they made pretty good stuff - pliers anyway.

Bob Roehrig  
Aurora University Telecom dept.  
broehrig@aurora.edu  
K9EUI W9ZGP WD2XSH/19

630-844-4898      fax 630-844-4222  
"Nostalgia is a thing of the past"

-----  
Message-ID: <000501c86de0\$1c815900\$7831bb40@k9a1e1>  
From: "John Gillespie" <jgillespie@porchlight.ca>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: AR 88LF  
Date: Tue, 12 Feb 2008 20:31:08 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hi Guys

        Heres a question: I have an AR 88LF that has four holes in the front panel for a small brass plate 1.35" high X 3" long. Were these radios issued with a brass plate on the front panel when used in the military?  
thanks john

-----  
From: WA5CAB@cs.com  
Message-ID: <c04.2ce9d9a7.34e3ac7f@cs.com>  
Date: Tue, 12 Feb 2008 21:14:23 EST  
Subject: WANTED: TM on R-100/URR  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_c04.2ce9d9a7.34e3ac7f\_boundary"

--part1\_c04.2ce9d9a7.34e3ac7f\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

A friend has an R-100/URR Morale Receiver and is looking for a maintenance manual if one ever existed. I have four pages of alignment instructions and a fold-out schematic from TM 11-310. If anyone has any more than that, please contact me.

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
MVPA 9480  
<[wa5cab@cs.com](mailto:wa5cab@cs.com)> (Primary email)  
<[wa5cab@comcast.net](mailto:wa5cab@comcast.net)> (Backup email)

--part1\_c04.2ce9d9a7.34e3ac7f\_boundary

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1\_c04.2ce9d9a7.34e3ac7f\_boundary--

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From: WA5CAB@cs.com  
Message-ID: <cef.2a010032.34e3b8db@cs.com>  
Date: Tue, 12 Feb 2008 22:07:07 EST  
Subject: Re: What are the best B/A handtools?  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_cef.2a010032.34e3b8db\_boundary"

--part1\_cef.2a010032.34e3b8db\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

With Phillips screwdrivers I learned years (decades) ago that if you would take new ones and remove 0.005" to 0.020" (roughly for #0 through #3) from the tip, the probability of a torque-out (which ruins both the screw and the screwdriver) was significantly reduced. The basic design problem with Phillips head

screwdrivers and screws is that there is apparently no allowance for real world crud or manufacturing tolerances. The driver tip theoretically perfectly fits the head all the way down to the tip. But in practice it seldom does. So it wobbles and wears and turns. Relieving the tip of the driver comes close to guaranteeing metal to metal fit between the splines of the tip and the grooves in the head. If it torques out under those conditions, either the tip hardness was inferior or the screw head breaks off.

In a message dated 2/12/2008 7:07:26 PM Central Standard Time,  
spr@earthlink.net writes:

> Phillips screwdrivers: the tip MUST be hardened, and therefore cannot be  
> chrome plated. Xcelite makes black tipped Phillips screwdrivers, and they are

> the \*only\* way to go.

Robert Downs - Houston  
<<http://www.wa5cab.com>> (Web Store)  
MVPA 9480  
<[wa5cab@cs.com](mailto:wa5cab@cs.com)> (Primary email)  
<[wa5cab@comcast.net](mailto:wa5cab@comcast.net)> (Backup email)

--part1\_cef.2a010032.34e3b8db\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

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* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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* * * * *
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--part1\_cef.2a010032.34e3b8db\_boundary--

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Message-ID: <006101c86df3\$e632ab60\$df9f480c@KB6NAX>  
From: "Arden Allen" <[gumbear@pacbell.net](mailto:gumbear@pacbell.net)>  
To: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>  
Subject: Re: What are the best B/A handtools?  
Date: Tue, 12 Feb 2008 19:50:24 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> What companies make the best hand tools, particularly  
> needle-nosed pliers and diagonal cutters, for working on  
> boatanchors?

There is no "best" manufacturer of electronic hand tools, IMO, but there certainly are makers to avoid. The problem with selecting a tool is realizing what the tradeoffs are and knowing what to expect from a tool. For instance Lindstrom diagonal cutters with cutting edges that can last a user's life if used properly are susceptible to the incompetent user borrowing them and destroying them in an instant by trying to cut hard materials. The very hard steel unfortunately breaks before bending. And on the other end of the scale I have a pair of Chinese made long needle nose I purchased for a few dollars at Harbor Freight Tools that



is unbeatable for reaching into tight spots. Being a fragile tool, I only use it for unintensive jobs. The heavier duty work I save for three different sizes of needle noses made by American makers Utical, Klein, and Unknown. A good rule of thumb is to purchase moderately priced tools in all the varieties you find you need and keep them safe from tool borrowers. One of my biggest disappointments is when I recently purchased a Stanley #2 phillips screwdriver at a hardware store and discovered it was junk. The tip was stamped and so non-conforming that it would not properly fit screw heads and was virtually useless for proper torque control. Stanley once had a good name but not anymore, IMO. Another thing to avoid from any quality level tool maker is a tool that is ergonomically stupid. In our line of work a so-called ergonomic tool can be a hindrance as we snake our way through ornate chassis jungles. A pre age-of-ergonomics tool can be positioned many ways, not being designed for repetitive factory manufacturing.

Things to consider when selecting cutters: Type of cut - non flush, semi flush, or full flush.

Things to consider when selecting needle (chain) nose pliers: Jaw surface - smooth, parallel serrated, opposing angle serrated, or cross serrated (serrations useally have to be smoothed to avoid tearing up copper wire, not easy to do with hard steel).

My best tools are Xcelite, Lindstrom, C&K, Erem, Klein, Hunter and Craftsman. I solder with Weller WTCP stations, using a variety of tip sizes, mostly the PTC7, PTD7 and PTE8 for boatanchoring.

Here's some suppliers who have catalogs of tools of many price and quality categories:

<http://www.stanleysupplyservices.com/category.aspx?id=199>

<http://www.excelta.com/marketplace/default.asp>

<http://www.mcmaster.com/>

<https://www.techni-tool.com>

And last of all, don't be afraid to buy a modestly priced tool and modify it by grinding and filing to suit a particular need. It will thence occupy a hallowed place in your tool box ;-)

PS: I too am a dedicated Xcelite phillips screwdriver fan (I only bought the Stanley when needed for an auxiliary tool box).

Arden Allen  
KB6NAX

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End of BOATANCHORS Digest 4147

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